

Pacomio Lamesan

From: Lamesajan [lamesajan@ca.astound.net]  
Sent: Tuesday, February 05, 2002 2:22 AM  
To: 'tara.dunn@dgs.ca.gov'  
Subject: Comments and suggestions regarding the direction and scope of the CPA Energy Resource and Investment Plan

From: Pacomio C. Lamesajan, 1236 New Hampshire Drive, Concord. CA 94521  
(Tel. 925+672-0436)  
e-mail: Lamesajan@astound.net

To: California Consumer Power and Conservation Financing Authority

Gentlemen:

It is just in time that I present to you a renewable source of energy plan that I believe should be made part of your report to the governor and the legislature this coming February 15. I am sending a letter to Mr. David Freeman describing the concept but it may not reach him before the report is submitted. I am hereby outlining the design, installation and production of the project to show the reliability, profitability and the immediate return on investment, that will make this endeavor the most feasible answer to the energy crisis. Should you need additional information, please let me know.

The system is based on my invention utilizing the kinetic energy of rivers and sea waves to produce electricity. Units installed can be connected as co-generated electricity to existing power lines in the locality. Electricity produced by units operating in the rivers or seas that are located in remote areas, can be used to produce hydrogen. "Freedom CAR", a recent alliance of car manufacturers will develop hydrogen fuel-cell powered cars as well as a nationwide system to distribute hydrogen to consumers. Buildings will also eventually use hydrogen fuel-cell power plants. There now hydrogen fueled cars, buses and portable electronics.

California State Power Authority is in the position to establish power and hydrogen production facilities in every river and sea of every country in the world. Attendees at the meeting that Mr. David Freeman held in Oakland wants that the State Power Authority stand visible in this endeavor. It is said that State effort is not sufficient in meeting the energy crisis. Environmental concerns and global warming are also issues that were voiced in the meeting. Oxygen is the by-product in the electrolytic production of hydrogen from water. This can be used by the steel and chemical industries. Both can be harvested periodically. Oxygen can also be vented to the atmosphere to improve the ecology. Some oxygen can readily be converted to ozone to replace the depleted layers. Some scientists are concerned about the formation of a new hole over New Zealand.

The technology is simple and can be easily designed, procured, fabricated, installed and operated. I have international experience in every phase of engineering such that I can provide the fundamental details from conception to completion. I however need a minimum grant to fund to process the patent of my invention that will cover the cost in making the model and the fee of an attorney or agency. While the patent is pending units can be built and installed in the rivers within the year that funds are available. I believe that as soon as the units are producing electricity and investing is opened to the public, funds will flow faster than fabrication capacity. Your leadership and mandate from your office will be needed to secure approval of permits, right of ways and co-generation contracts that are to be established. I believe that we will be energy independent within five years as we allow the momentum to follow its course.

We can be the primary producer of hydrogen in the world. Federal clout will

Pacomio Lamesan

be of great help if we go international starting with the Amazon river, the Nile, etc. Foreign aid to other countries may be tapped to use the natural power of their rivers in generating electricity (i.e. Afghanistan). The constant ten foot waves along the continental shelf and the shallows in Micronesia will be ideal for hydrogen production.

Encyclopedia Britannica states that river velocity varies between 14 meters per second near the falls and 2.4 mps at the lower section of the Amazon. Using an average of 8 mps in a hydraulic formula, the Mississippi at 18,000 cu. meters per second will produce 60 megawatts of electricity across the flow allowing 50% of cross section to marine traffic and an efficiency of 20% for the whole system. (The Amazon is 10 times greater than the Mississippi). It will depend on how long of the 6,000 miles of the Mississippi will be available for development, but prefabricated modules can be strung across the river every 50 feet. Rivulets along the slope of the Sierras can be developed across its full width since there is no marine traffic.

Paddle wheels will be suited for shallow rivers, propellers for medium depth and speeds, bucket-chain will be suitable for slower flow velocity. In every case the design is flexible to consider environmental concerns. All can be installed underwater out of sight, and unaffected by floods. The steady flow over the blades assures constant power night and day, independent of sunlight or wind conditions. Complex speed controller will not be needed. The hydraulic turbine speed will be regulated by a simple solenoid governor actuated by the synchronous signal from the current generated. Since the water is 830 times heavier than air, the propellers and structures will be proportionately less than that required for wind power. Standardized modular construction with shelf item parts is economical to build and maintain. There will be no carbon dioxide generation, nor dangers of oil spills. Mining, transport, processing, storage, boiler operation, waste disposal will be savings over that of coal. Dangers of radiation and atomic degradation of vital components, waste disposal, delicate operational control will be evaded. Hydro electric dam construction is not needed.

Availability of this natural resource is as wide as the seas and as long as the rivers. With the geo-positioning satellite ocean wave-power is an open possibility. Development of these resources can keep pace with the ever increasing industrial demand for energy. It will also eliminate our dependence on unstable countries for oil. This will also be a boon to third world countries.

This concept was described to Vice President Cheney and I received a letter from Mr. Lundquist who said that the Energy Policy Development Group will keep in mind my suggestion in their final report to the President. I also received a favorable letter from President Bush and Mr. Richardson of DOE. I however believe that action on renewable form of energy will come more strongly from the California Power Authority with the leadership of Mr. S. David Freeman. Many thanks for your time and attention. Please let me hear from you soon.

Very truly yours,  
Paco